Assignment 3: Data distribution and Linear Algebra

July 13, 2022

Submission URL

Submission Deadline: 15/07/2022, 2.30 PM

Data Distribution

1. **Random Numbers**

   Write a program that generates a random number, x, between 1 and 50, a random number y between 2 and 5, and computes x * y

2. **Distribution**

   Write your own function for probability mass function and cumulative distribution function for Poisson distribution and plot the PMF and CDF

Linear Algebra

3. Write a NumPy program to compute the sum of the diagonal element of a given array (Hint: *numpy.trace*)

   Input: m = np.arange(4).reshape(2,2)

   Output: 3

4. Write a for loop to iterate through every element of a given matrix and print them